

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

INVENTORS : H. YAMADA et al.  
SERIAL NO. : 09/580,294  
FILED : May 26, 2000  
FOR : COMPOSITE SEMIPERMEABLE MEMBRANE  
GROUP ART UNIT : 1723  
EXAMINER : S. Kim  
ASSISTANT COMMISSIONER  
FOR PATENTS  
Washington, D.C. 20231

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. § 1.97 & § 1.98**

S I R:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56 and in conformance with the procedures of 37 C.F.R. §§ 1.97(c) and 1.98 and M.P.E.P. § 609, attorneys for Applicants hereby bring the attached references listed on the modified form PTO-1449 to the attention of the Examiner.

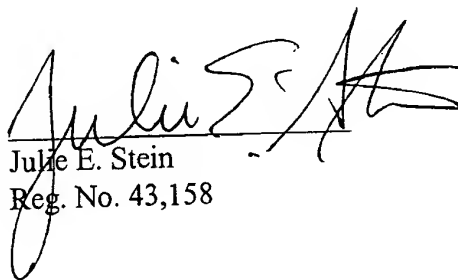
The references were cited on pages 1 and 8 of the specification in the present application. Copies of the references are enclosed.

It is respectfully requested that the information be expressly considered during the prosecution of this application and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom. A copy of each patent, publication or other information listed on the modified PTO form 1449 is attached hereto.

Please charge Deposit Account No. 11-0600 in the amount of \$180.00 in payment of the fee due under 37 C.F.R. § 1.17(p) to ensure consideration of the disclosed information. The Office is hereby authorized to charge any additional fees under 37 C.F.R. § 1.16 or § 1.17 or credit any over payment to Deposit Account No. 11-0600. A duplicate copy of this communication is enclosed for charging purposes.

Respectfully submitted,

Date: 9-13-01

  
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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit : 1723  
Applicants : Hideki YAMADA, et al.  
Serial No. : 09/580,294  
Filed : May 26, 2000  
For : COMPOSITE SEMIPERMEABLE MEMBRANE

Assistant Commissioner for  
Patents  
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. 1.56

S I R :

Applicants wish to bring to the attention of the Examiner the following publications:

1. U.S. Patent No. 4,980,061. This patent is a continuation of U.S. Serial No. 198,647, which is a continuation of U.S. Serial No. 788,137, which corresponds to Japanese Unexamined Patent Publication No. 1987-95105. This is referred to on page 1, lines 20 and 21 of the specification.

2. PB Report 81-167215, "Development of Hollow Fiber Reverse Osmosis Membranes, D.K. Schiffer, et al., November 1980. This is referred to in the specification.

3. Japanese Unexamined Patent Publication No. 1990-2842, with abstract. This is referred to in the specification.

4. Journal of Membrane Science, 45, (1989), pp. 225-245, "A Surface Science Investigation of Composite Membranes", Craig R. Bartels.

5. Journal of Membrane Science, 46, (1989), pp. 243-260, "Structure-Property Relationship in a Thin Film Composite-Reverse Osmosis Membrane", Samuel D. Arthur.

6. U.S. Patent No. 4,259,183.

7. U.S. Patent No. 4,277,344.

8. U.S. Patent No. 5,783,079.

9. The 1996 International Congress on Membranes and Membrane Processes, pages 190-191.


These publications are listed on the attached form PTO-1449 and copies are enclosed for the convenience of the Examiner.

It is requested that these publications be considered and made of record herein.

The Office is hereby authorized to charge Deposit Account No. 11-0600 for any fees required by this paper, a copy of which is enclosed.

Respectfully submitted,

KENYON & KENYON

By   
Edward W. Greason  
Reg. No. 18,918

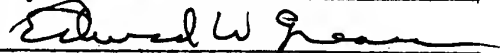
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Dated: August 15, 2000

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KENYON & KENYON  
EDWARD W. GREASON

F (M PTO-1440  
(REV. 2-23)

U.S. DEPARTMENT OF COMMERCE  
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ATTY. DOCKET NO.

SERIAL NO.

09/580,294

INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT

(Use several sheets if necessary)

APPLICANT

Hideki YAMADA, et al.

FILING DATE

May 26, 2000

GROUP

1723

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,980,061	12/25/90	Tadros, et al.			
	4,259,183	3/31/81	Cadotte			
	4,277,344	7/7/81	Cadotte			
	5,783,079	7/21/98	Kumano, et al.			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
2-2842	1/8/90	Japan			Abstract

OTHER DOCUMENTS (Including Author, Title, Date, Patent Pages, Etc.)

	PB Report 81-167215, "Development of Hollow Fiber Reverse Osmosis Membranes", D.K. Schiffer, et al, November, 1980
	Journal of Membrane Science, 45, (1989), pp. 225-245, "A Surface Science Investigation of Composite Membranes", Craig R. Bartels
	Journal of Membrane Science, 46, (1989), pp. 243-260, "Structure-Property Relationship in a Thin Film Composite-Reverse Osmosis Membrane", Samuel D. Arthur

EXAMINER

DATE CONSIDERED

\*EXAMINER. Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

